

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-25 (canceled)

26. (currently amended)      A method ~~for synthesizing a chemical species~~  
comprising:  
    -- providing a reaction support having a first surface and a second  
surface;  
    -- ~~a-~~    identifying a plurality of reaction sites upon a the first surface ~~of a~~  
~~reaction support;~~  
    -- ~~b-~~    jetting upon a first set of ~~said~~ reaction sites, drops of fluid comprising a  
first chemical reactant species; ~~and~~  
    -- ~~c-~~    jetting upon a second set of said reaction sites, drops of fluid  
comprising a second chemical reactant species;  
    -- allowing said chemical reactant species to form a reaction product at at  
least so me of the reaction sites; and  
    -- collecting said reaction product on a collection plate, said collection  
plate being adjacent to the second surface.

27. (original)    The method of claim 26 wherein said reaction support is porous.

28. (original)    The method of claim 27 wherein the porous support comprises  
controlled pore glass.

29. (original)    The method of claim 27 wherein the porous support comprises a  
porated solid.

30. (original)    The method of claim 27 wherein the porous support comprises fibers  
having a substantially common axis normal to the first surface.

31. (original) The method of claim 27 wherein the porous support is an anisotropic membrane.

32. (original) The method of claim 26 wherein the support comprises a second surface substantially parallel with the first surface, the support being capable of transporting fluid contacting the first surface to the second surface of the support in a direction substantially normal to the first surface.

33. (canceled)

34. (original) The method of claim ~~26~~ 33, wherein said collection plate has a plurality of wells for receiving said reaction product ~~fluid~~.

35. (original) The method of claim 26 under control of a digital control means.

36. (currently amended) The method of claim 26 wherein said first and second sets of reaction sites are substantially ~~substantial~~ identical.

37. (currently amended) The method of claim 26 wherein said reaction product ~~synthesis~~ is of an oligonucleotide.

38. (currently amended) A method for synthesizing a chemical species comprising

-- ~~a.~~ bonding an initial reaction fragment to a first surface of a reaction support, said first surface having a plurality of preselected reaction sites;

-- ~~b.~~ jetting upon a first set of said reaction sites a first chemical reactant species to effect a chemical reaction with the initial reaction fragment at the first set of reaction sites; and

-- ~~c.~~ jetting upon a second set of said reaction sites a second chemical reactant species to effect a chemical reaction with either

- i. the initial reaction fragment at sites not in common with said first set of reaction sites, or
- ii. the reaction product of the initial reaction fragment and the first chemical reactant at those sites which are in common with said first set of reaction sites; and  
-- recovering the chemical species on a collection plate located adjacent to a second surface of said reaction support.

39. (currently amended) The method of claim 38 further comprising, prior to said recovering, a step comprising:

- ~~d-~~ jetting upon a further set of said reaction sites a further chemical reactant species, which may be the same as or different from any prior chemical reactant species, to effect a chemical reaction with either
  - i. the initial reaction fragment at sites not in common with any prior set of reaction sites, or
  - ii. the reaction product of the initial reaction fragment and the additional chemical reactants delivered to sites of said further set.

40. (original) The method of claim 39 performed iteratively.

41. (canceled)

42. (currently amended) The method of claim 38 wherein ~~said synthesis~~ the chemical species is an ~~of~~ oligonucleotide.

43-53. (canceled)